

FIG. 1

[88.0% / 935 aa]

1' MQNSAMKPHLDSSHLAGANQSYIEQLYEDFLTDPDSVDAYNRSMFQQLPGTGKPEQFHS
1' MQNSALKAWLDSSYLSGANQSNIEQLYEDFLTDPDSVDANMRSTFQQLPGTGKPKDQFHS
61' ATREYFRRLAKDASRYTSSVTPDPAHNSKQVKVLQLINAFRFRGHQEAHLDPLGLWKQDQV
61' QTREYFRRLAKDASRYSTISDPDTHVKQVKVLQLINAYFRFRGHQEAHLDPLGLWQDQV
121' ADLOPAFHDLTDADFQESFNVGSFAIGKETHKLADLFDALKQTYCGSIGAEYMHINNTTE
121' ADLDPSFHDLTADDFQETFNVGSFASGKETHKGLLEALKQTYCGPIGAEYMHITSTTE
181' KRWIQQRIESGASQTSFSGEEKKGFLKELTAEGLEKYLGAFFGAKRFSLEGGDALVPM
181' KRWIQQRIESG--RATFNSEEKKRFLSELTAEGLERLYGAKFFGAKRFSLEGGDALVPM
241' LREHMRHAGSGTREVVLQMAHRGRLLNVLNKKPQDLDFEFGSKHKEHLTGDOVKYH
241' LKEMRHAHAGSGTREVVLQMAHRGRLLNVLNKKPQDLDFEFGAGHKEHLTGDOVKYH
301' MGFSSDIETEGGLVHLALAFNPShLEIVSPVMGSVRARLDRLEAPVSNKVLPTTHGDA
299' MGFSSDFQDGLVHLALAFNPShLEIVSPVWIGSVRARLDRLEAPVSNKVLPTTHGDA
361' AVIGQGVVQETLNMSQARGYEVGGTVRIVINNQGFTTSPNKDARSTPYCTDIGKAVLAP
359' AVTGGGVVQETLNMSKARGYEVGGTVRIVINNQGFTTSPNLDARSTPYCTDIGKAVQAP
421' IFHVNADDPEAVAFVTRLALDYRNTFKROVFIDLVCYRRHGHNEADEPSATQPLMYQKIK
419' IFHVNADDPEAVAFVTRLALDFRNTFKROVFIDLVCYRRHGHNEADEPSATQPLMYQKIK
481' KHPTPRKIYADRLLEGQVASEDATEMWNLYRDALDAGECVPEWRPMSLHSTWSPYLN
479' KHPTPRKIYADRLLEGQVATLEDATEMWNLYRDALDAGDCCVAENRPMNHSTWSPYLN
541' HENDEPYPAQVDMKRLKELALRISQVPEQIEVQSRVAKIYNDRKLMAEGEKAFFDWGGAEN
539' HENDEEYPNKVEHMKRLQELAKRISTVPEAEMQSRVAKIYDORQMAAGEKLFDWGGAEN
601' LAYATLVDEGIPVRLSGEDSGRGTFFHRAVHNQANGSTYTPLHHIHNQGEFKYMDSV
599' LAYATLVDEGIPVRLSGEDSGRGTFFHRAVHNQANGSTYTPLHHIHNQGEFAFRYMDSV
661' LSEEAVLAFEGYATAEPVRLTINAEQFGDFANGAQVVDQFISSGEQKGRMCLVMLL
659' LSEEAVLAFEGYATAEPRTLINAEQFGDFANGAQVVDQFISSGEQKGRMCLVMLL
721' PHGYEGQGEHSSARLERYLQLCAEQNMQVCPSTPAQVYHMLRRQALRGHRRPLVWMS
719' PHGYEGQGEHSSARLERYLQLCAEQNMQVCPSTPAQVYHMLRRQALRGHRRPLVWMS
781' KSLLRHPLATSSSDELANGSFQPAIGIEDDLPQGVKRVVLCSGKYVYDLLEQRKDEKT
779' KSLLRHPLAVSSLEELANGTFLPAIGIEIDLQPKGVKRVVMCSGKYVYDLLEQRKXNQH
841' DVAIVRIEQLYPPFHQAQVQALKAYSHVQDFVNCQEEPLNQGANYSQHHFRDVPFGAT
839' DVAIVRIEQLYPPFHKAQVQVLFQFAHVKDFVNCQEEPLNQGANYSQHHFRVIFPGAS
901' LRYAGRPASAPAVGYMSVHQKQQQDLVNDALNVN
899' LRYAGRPASAPAVGYMSVHQKQQQDLVNDALNVE

FIG. 2

10077745.026002

[88.2% / 407 aa]

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1' MSSVDILVPDLPESVADATVATWHKKPGDAVSRDEVIVEIETDKVVLVPPASADGVLEAV
.....
1' MSSVDILVPDLPESVADATVATWHKKPGDAVVRDEVIVEIETDKVVLVPPASADGILDAV
.....
61' LEDEGATVTSRQILGRLEKESAGKESAKAESNOTTPAQRTASLEESSDALSPAIRR
.....
61' LEDEGTTVTSRQILGRLEKESAGKESAKSEKASTPAQRQASLEEQNNDALSPAIRR
.....
121' LIAEHNLDAAQIKGTGVGRLTREDVEKHLANKPQAEKAAAPAAAGAATAQQPVANRSEKR
.....
121' LLAEHNLDASAIGKGTGVGRLTREDVEKHLAKAPAKE--SAPAAAAAPAAQALAAARSEKR
.....
181' VPMTRLRKRVAERLLEAKNSTAMLTTFNEINMKPIMDLRKQYGDFAEKRRHGRLGPMFSY
.....
179' VPMTRLRKRVAERLLEAKNSTAMLTTFNEVNMKPIMDLRKQYGEAFEKRRHGRLGPMFSY
.....
241' IKAVVEALKRYPEVNASIDGEDVYYHNYFDVSIIVSTPRGLVTPVLRDVALSHADIEKK
.....
239' VKAVVEALKRYPEVNASIDGDDVYYHNYFDVSMVSTPRGLVTPVLRDVALSHADIEKK
.....
301' IKELAVKGRDGKLTVDLTGGNFTITNGGVFGLMSTPIINPPQSAILGHAIKDRPMVAV
.....
299' IKELAVKGRDGKLTVEDLTGGNFTITNGGVFGLMSTPIINPPQSAILGHAIKDRPMVAV
.....
361' NGQVILPMMYLALSYDHRLLIDGRESVGYLVAVKEMLEDPARLLLDV
.....
359' NGQVEILPMMYLALSYDHRLLIDGRESVGLVLTIKELLEDPTRLLLDV
.....

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FIG. 3

[95.1% / 41 aa]

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1' MNLHEYQAKQLFARYQHPAPTGYACTTPREAEAAASKIGAG
.....
1' MNLHEYQAKQLFARYGLPAPVGYACTTPREAEAAASKIGAGPMVVKCQVHAGGRKGAGV
.....

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FIG. 4

[97.4% / 39 aa]

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1' AFSVFRCHSIMNCVSVCPKGLNPTRAIGHIKSMLLQRSA
.....
181' FLIDSRDTETDSRLDGLSDAFSVFRCHSIMNCVSVCPKGLNPTRAIGHIKSMLLQRNA
.....

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FIG. 5

10077745-022002

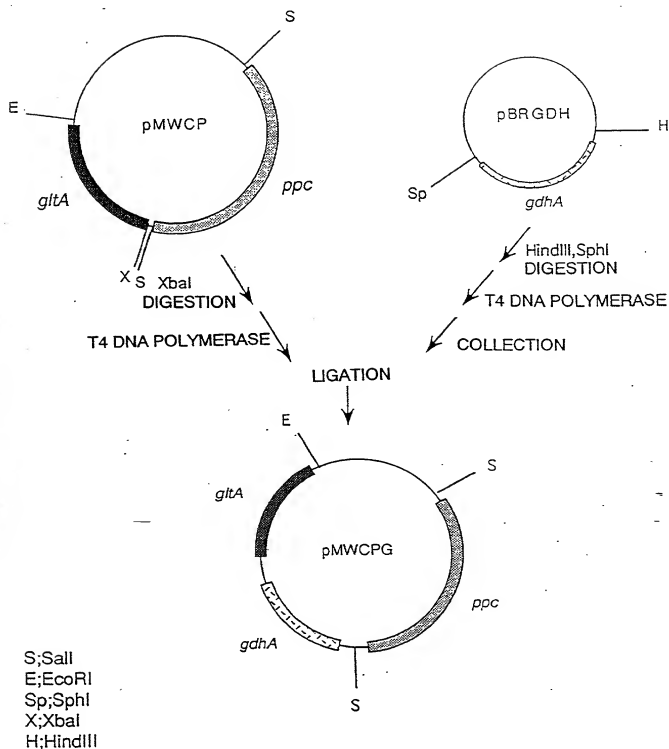


FIG. 6

1007745-022002

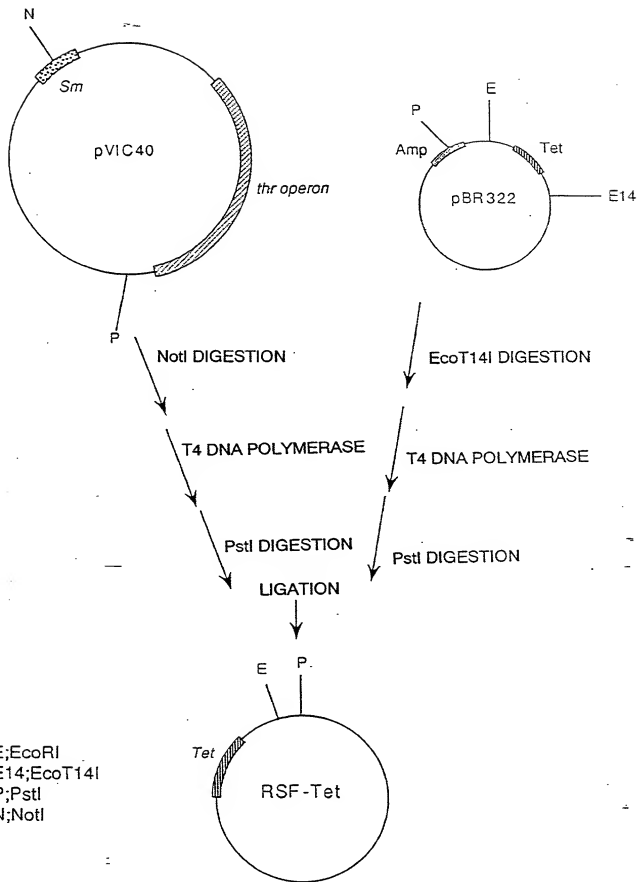
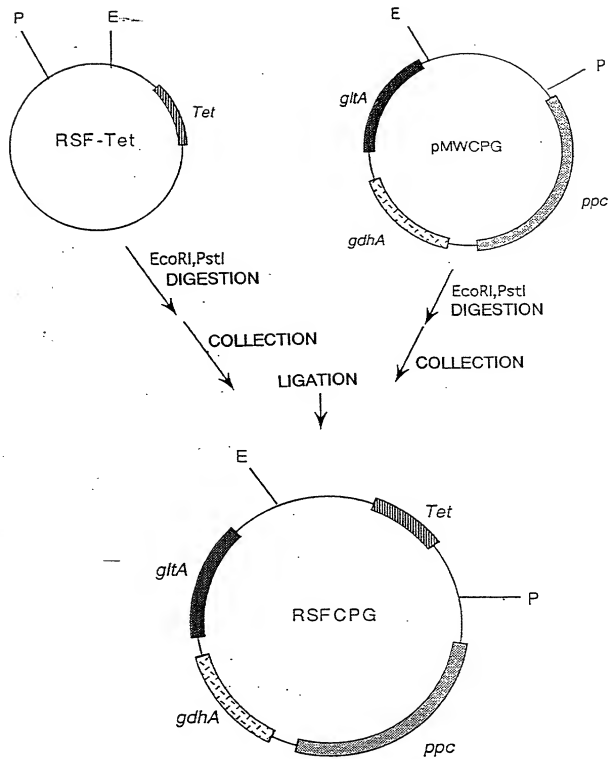


FIG. 7



E;EcoRI
P;PstI

FIG. 8

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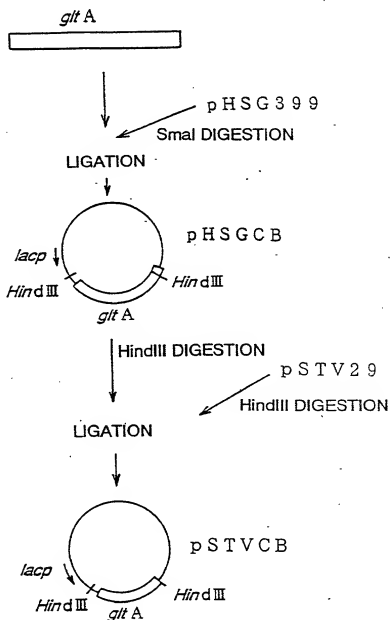


FIG. 9